



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicants : Burgoon et al.  
Serial No. : 10/684,975  
Filed : October 14, 2003  
Title : INFORMATION RESERVOIR  
Docket : BAT 0072 PA/40078.248  
Art Unit : N/A

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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James E. Beyer

Reg. No. 39,564

Sir:

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UNDER 37 CFR §§ 1.56, 1.97, AND 1.98

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 CFR §1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 CFR §1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 CFR §1.97(h), constitute an admission that any patent, publication, or other information referred to is, or is considered to be, material to the patentability of this invention. Further, pursuant to 37 CFR §1.97(g), the filing of this Statement should not be construed as a statement that a search has been made or that no other material information exists.

This Information Disclosure Statement is being filed within the period set forth in 37 CFR §1.97(b) because it is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in 37 CFR §1.491 in an international application.

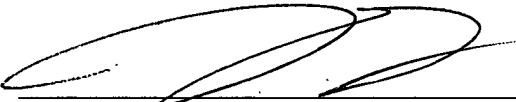
Serial No. 10/684,975

Docket No. BAT 0072 PA/40078.248

The Office has waived the requirement pursuant to 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003. Therefore, no copies of each cited U.S. patent and each cited U.S. patent application publication are enclosed, but the cited U.S. patents and the cited U.S. patent application publications are listed on PTO/SB/08A.

Respectfully submitted,  
DINSMORE & SHOHL LLP

By



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Sheet 1 of 8

**Complete if Known**

Application Number	10/684,975
Filing Date	October 14, 2003
First Named Inventor	David Alford Burgoon
Art Unit	
Examiner Name	
Attorney Docket Number	BAT 0072 PA/40078.248

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,620,286	10/28/1986	Smith et al.	
		US- 4,774,681	09/27/1988	Frisch	
		US- 4,910,772	03/20/1990	Matias et al.	
		US- 5,058,158	10/15/1991	Matias et al.	
		US- 5,251,131	10/05/1993	Masand et al.	
		US- 5,257,206	10/26/1993	Hanson	
		US- 5,257,365	10/26/1993	Powers et al.	
		US- 5,270,957	12/14/1993	Murray	
		US- 5,335,345	08/02/1994	Frieder et al.	
		US- 5,361,379	11/01/1994	White	
		US- 5,379,422	01/03/1995	Antoshenkov	
		US- 5,448,733	09/05/1995	Satoh et al.	
		US- 5,475,813	12/12/1995	Cieslak et al.	
		US- 5,481,704	01/02/1996	Pellicano	
		US- 5,488,725	01/30/1996	Turtle et al.	
		US- 5,524,240	06/04/1996	Barbara et al.	
		US- 5,537,589	07/16/1996	Dalal	
		US- 5,546,502	08/13/1996	Hart et al.	
		US- 5,563,982	10/08/1996	Wang et al.	

**FOREIGN PATENT DOCUMENTS**

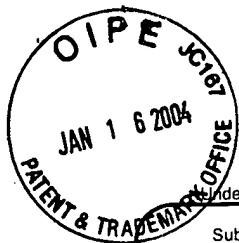
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO 95/30981	11/16/1995	Hutson		
		WO 95/32477	11/30/1995	Potter et al.		
		EP 0 965 928 A2	12/22/1999	Acharya et al.		
		WO 00/03315	01/20/2000	Risvik		
		WO 00/65479	11/20/2000	Fayyad et al.		

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		US- 5,581,704	12/03/1996	Barbara et al.	
		US- 5,583,950	12/10/1996	Prokoski	
		US- 5,596,493	01/21/1997	Tone et al.	
		US- 5,603,022	02/11/1997	Ng et al.	
		US- 5,634,049	05/27/1997	Pitkin	
		US- 5,664,171	09/02/1997	Agrawal et al.	
		US- 5,666,525	09/09/1997	Ross	
		US- 5,675,785	10/07/1997	Hall et al.	
		US- 5,675,786	10/07/1997	McKee et al.	
		US- 5,689,696	11/18/1997	Gibbons et al.	
		US- 5,692,171	11/25/1997	Andres	
		US- 5,721,896	02/24/1998	Ganguly et al.	
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		US- 5,752,241	05/12/1998	Cohen	
		US- 5,765,158	06/09/1998	Burrows	
		US- 5,799,300	08/25/1998	Agrawal et al.	
		US- 5,812,999	09/22/1998	Tateno	
		US- 5,870,752	02/09/1999	Gibbons et al.	
		US- 5,878,426	03/02/1999	Plasek et al.	

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Sheet 3 of 8

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First Named Inventor	David Alford Burgoon
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Examiner Name	
Attorney Docket Number	BAT 0072 PA/40078.248

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,890,150	03/30/1999	Ushijima et al.	
		US- 5,890,151	03/30/1999	Agrawal et al.	
		US- 5,893,090	04/05/1999	Friedman et al.	
		US- 5,946,692	08/31/1999	Faloutsos et al.	
		US- 5,956,707	09/21/1999	Chu	
		US- 5,987,467	11/16/1999	Ross et al.	
		US- 5,999,928	12/07/1999	Yan	
		US- 6,012,064	01/04/2000	Gibbons et al.	
		US- 6,026,390	02/15/2000	Ross et al.	
		US- 6,026,391	02/15/2000	Osborn et al.	
		US- 6,032,144	02/29/2000	Srivastava et al.	
		US- 6,052,689	04/18/2000	Muthukrishnan et al.	
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		US- 6,092,072	08/18/2000	Guha et al.	
		US- 6,108,647	08/22/2000	Poosala et al.	
		US- 6,125,360	09/26/2000	Witkowski et al.	
		US- 6,134,543	10/17/2000	Witkowski et al.	
		US- 6,175,836	01/16/2001	Aldred	
		US- 6,240,407	05/29/2001	Chang et al.	

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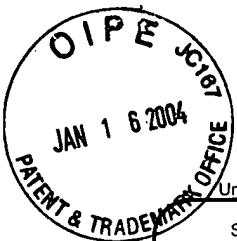
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		Number-Kind Code <sup>2</sup> (if known)			
		US- 6,272,498	08/07/2001	Muthukrishnan et al.	
		US- 6,278,989	08/21/2001	Chaudhuri et al.	
		US- 6,278,998	08/21/2001	Ozden et al.	
		US- 6,282,570	08/28/2001	Leung et al.	
		US- 2002/0010706	01/24/2002	Brickell et al.	
		US- 6,343,288	01/29/2002	Lindsay et al.	
		US- 6,353,832	03/05/2002	Acharya et al.	
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		US- 2002/0103793	08/01/2002	Koller et al.	
		US- 6,438,538	08/20/2002	Goldring	
		US- 2002/0123979	09/05/2002	Chaudhuri et al.	
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		US- 6,473,084	10/29/2002	Phillips et al.	
		US- 6,477,534	11/05/2002	Acharya et al.	
		US- 6,480,836	11/12/2002	Colby et al.	
		US- 6,484,159	11/19/2002	Mumick et al.	

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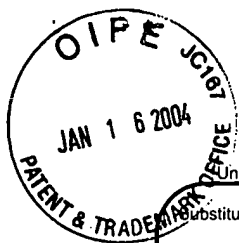
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NON PATENT LITERATURE DOCUMENTS			
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		ACHARYA et al.; Join Synopses for Approximate Query Answering; Bell Laboratories; New Jersey	
		VITTER; An Efficient Algorithm for Sequential Random Sampling; pp. 1-11	
		ZAKI et al.; Evaluation of Sampling for Data Mining of Association Rules; pp. 1-9	
		GUNOPULOS et al.; Approximating Multi-Dimensional Aggregate Range Queries Over Real Attributes; pp. 1-12	
		HAAS; Hoeffding Inequalities for Join-Selectivity Estimation and Online Aggregation; Research Report; August 1996; pp. 1-29; IBM Research Division; California	
		LING et al.; An Evaluation of Sampling-Based Size Estimation Methods for Selections in Database Systems; 1995; pp. 532-539; IEEE	
		ACHARYA et al.; Aqua: A Fast Decision Support System Using Approximate Query Answers; Proceedings of the 25th VLDB Conference; 1999; pp. 754-757; Scotland	
		AMBITE et al.; Fast Approximate Evaluation of OLAP Queries for Integrated Statistical Data; pp. 1-8	
		ABDULLA et al.; Approximate Ad-Hoc Query Engine for Simulation Data; 2001; pp. 1-2	
		GANTI et al.; CICLES: Self-Tuning Samples for Approximate Query Answering; Proceedings of the 26th VLDB Conference; 2000; pp. 1-12; Egypt	

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**NON PATENT LITERATURE DOCUMENTS**

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		GIBBONS et al.; Aqua Project White Paper; 1997; pp. 1-28; New Jersey	
		GIBBONS et al.; New Sampling-Based Summary Statistics for Improving Approximate Query Answers; pp. 1-12	
		HAAS et al.; Fixed-Precision Estimation of Join Selectivity; 1993; pp. 190-201; Washington, D.C.	
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ROWE; Antisampling For Estimation: An Overview; 1985; pp. 1-20; IEEE	
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